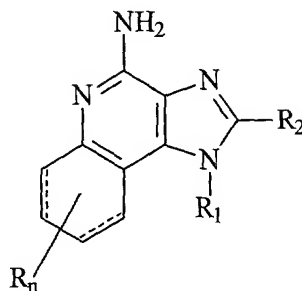


WHAT IS CLAIMED IS

1. A pharmaceutical composition comprising a therapeutically effective amount of a compound of the formula (I):

5



(I)

wherein

R_1 is $-C_{2-4}$ alkyl- NR_3 -CO- R_4 wherein R_4 is aryl, substituted aryl, heteroaryl, substituted heteroaryl, or alkyl;

10

R_2 is selected from the group consisting of:

-hydrogen;

-alkyl;

-alkenyl;

-aryl;

15

-(substituted aryl);

-heteroaryl;

-(substituted heteroaryl);

-heterocyclyl;

-(substituted heterocyclyl);

20

-alkyl-O-aryl;

-alkyl -O-alkyl;

-alkyl-O-alkenyl; and

-alkyl or alkenyl substituted by one or more substituents selected from the group consisting of:

25

-OH;

-halogen;
 -N(R₃)₂;
 -CO-N(R₃)₂;
 -CO-C₁₋₁₀ alkyl;
 5 -CO-O-C₁₋₁₀ alkyl;
 -N₃;
 -aryl;
 -(substituted aryl);
 -heteroaryl;
 10 -(substituted heteroaryl);
 -heterocyclyl;
 -(substituted heterocyclyl);
 -CO-aryl; and
 -CO-heteroaryl;

15 each R₃ is independently selected from the group consisting of hydrogen; C₁₋₁₀ alkyl-heteroaryl; C₁₋₁₀ alkyl-(substituted heteroaryl); C₁₋₁₀ alkyl-aryl; C₁₋₁₀ alkyl-(substituted aryl) and C₁₋₁₀ alkyl;

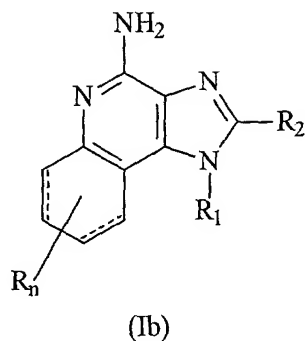
n is 0 to 4;

20 and each R present is independently selected from the group consisting of C₁₋₁₀ alkyl, C₁₋₁₀ alkoxy, halogen and trifluoromethyl, or a pharmaceutically acceptable salt thereof, in combination with a pharmaceutically acceptable carrier.

2. The composition of claim 1 wherein R₃ is hydrogen.

25 3. The composition of claim 1 wherein R₂ is selected from the group consisting of hydrogen; C₁₋₄ alkyl; and C₁₋₄ alkyl-O-C₁₋₄ alkyl.

4. A pharmaceutical composition comprising a therapeutically effective amount of a compound of the formula (Ib):



5 wherein

R_1 is $-C_{2-4}$ alkyl- NR_3 -CO- R_4 wherein R_4 is heterocyclyl or substituted heterocyclyl;

R_2 is selected from the group consisting of:

- 10 -hydrogen;
- alkyl;
- alkenyl;
- aryl;
- 15 -(substituted aryl);
- heteroaryl;
- (substituted heteroaryl);
- heterocyclyl;
- (substituted heterocyclyl);
- alkyl-O-aryl;
- 20 -alkyl -O-alkyl;
- alkyl-O-alkenyl; and
- alkyl or alkenyl substituted by one or more substituents selected from the group consisting of:
- 25 -OH;
- halogen;

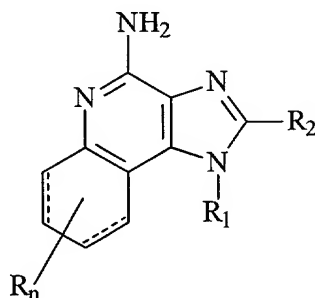
-N(R₃)₂;
 -CO-N(R₃)₂;
 -CO-C₁₋₁₀ alkyl;
 -CO-O-C₁₋₁₀ alkyl;
 -N₃;
 -aryl;
 -(substituted aryl);
 -heteroaryl;
 -(substituted heteroaryl);
 -heterocyclyl;
 -(substituted heterocyclyl);
 -CO-aryl; and
 -CO-heteroaryl;

each R₃ is independently selected from the group consisting of hydrogen; C₁₋₁₀ alkyl-heteroaryl; C₁₋₁₀ alkyl-(substituted heteroaryl); C₁₋₁₀ alkyl-aryl; C₁₋₁₀ alkyl-(substituted aryl) and C₁₋₁₀ alkyl;

n is 0 to 4;

and each R present is independently selected from the group consisting of C₁₋₁₀ alkyl, C₁₋₁₀ alkoxy, halogen and trifluoromethyl, or a pharmaceutically acceptable salt thereof, in combination with a pharmaceutically acceptable carrier.

5. A compound of the formula (Id):



(Id)

wherein

R_1 is $-C_{2-4}$ alkyl- NR_3 -CO- R_4 wherein R_4 is heteroaryl or substituted heteroaryl;

R_2 is selected from the group consisting of:

- 5 -hydrogen;
 -alkyl;
 -alkenyl;
 -aryl;
 -(substituted aryl);
 -heteroaryl;
10 -(substituted heteroaryl);
 -heterocyclyl;
 -(substituted heterocyclyl);
 -alkyl-O-aryl;
 -alkyl -O-alkyl;
15 -alkyl-O-alkenyl; and
 -alkyl or alkenyl substituted by one or more substituents selected from the
group consisting of:
 -OH;
 -halogen;
20 - $N(R_3)_2$;
 -CO- $N(R_3)_2$;
 -CO- C_{1-10} alkyl;
 -CO-O- C_{1-10} alkyl;
 - N_3 ;
25 -aryl;
 -(substituted aryl);
 -heteroaryl;
 -(substituted heteroaryl);
 -heterocyclyl;
30 -(substituted heterocyclyl);
 -CO-aryl; and
 -CO-heteroaryl;

each **R**₃ is independently selected from the group consisting of hydrogen; C₁₋₁₀ alkyl-heteroaryl; C₁₋₁₀ alkyl-(substituted heteroaryl); C₁₋₁₀ alkyl-aryl; C₁₋₁₀ alkyl-(substituted aryl) and C₁₋₁₀ alkyl;

n is 0 to 4;

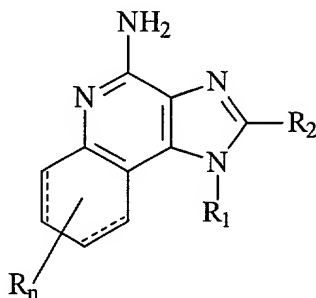
and each **R** present is independently selected from the group consisting of C₁₋₁₀ alkyl, C₁₋₁₀ alkoxy, halogen and trifluoromethyl, or a pharmaceutically acceptable salt thereof.

6. A compound of claim 5 wherein **n** is 0.

7. A compound of claim 5 wherein **R**₂ is selected from the group consisting of hydrogen, C₁₋₄ alkyl, and C₁₋₄ alkyl-O-C₁₋₄ alkyl.

8. A compound of claim 5 wherein **R**₃ is hydrogen.

9. A compound of the formula (Ie):



(Ie)

wherein

R₁ is -C₂₋₄ alkyl-N**R**₃-CO-C₁₋₈ alkyl;

R₂ is selected from the group consisting of:

-hydrogen;

-alkyl;

-alkenyl;

-aryl;

-(substituted aryl);
 -heteroaryl;
 -(substituted heteroaryl);
 -heterocyclyl;
 5 -(substituted heterocyclyl);
 -alkyl-O-aryl;
 -alkyl -O-alkyl;
 -alkyl-O-alkenyl; and
 -alkyl or alkenyl substituted by one or more substituents selected from the

10 group consisting of:

-OH;
 -halogen;
 -N(R₃)₂;
 -CO-N(R₃)₂;
 15 -CO-C₁₋₁₀ alkyl;
 -N₃;
 -aryl;
 -(substituted aryl);
 -heteroaryl;
 20 -(substituted heteroaryl);
 -heterocyclyl;
 -(substituted heterocyclyl);
 -CO-aryl; and
 -CO-heteroaryl;

25 each **R**₃ is independently selected from the group consisting of hydrogen; C₁₋₁₀ alkyl-heteroaryl; C₁₋₁₀ alkyl-(substituted heteroaryl); C₁₋₁₀ alkyl-aryl; C₁₋₁₀ alkyl-(substituted aryl) and C₁₋₁₀ alkyl;

n is 0 to 4;

and each **R** present is independently selected from the group consisting of C₁₋₁₀ alkyl, C₁₋₁₀ alkoxy, halogen and trifluoromethyl, or a pharmaceutically acceptable salt thereof.

10. A compound of claim 9 wherein n is 0.

11. A compound of claim 9 wherein R₂ is selected from the group consisting of hydrogen, C₁₋₄ alkyl, and C₁₋₄ alkyl-O-C₁₋₄ alkyl.

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12. A compound of claim 9 wherein R₃ is hydrogen.

13. A pharmaceutical composition comprising a therapeutically effective amount of a compound selected from the group consisting of:

10 (2*S*,3*S*)-*N*-{4-[4-amino-2-(2-methoxyethyl)-1*H*-imidazo[4,5-*c*]quinolin-1-yl]butyl}-1-methyl-5-oxo-2-pyridin-3-ylpyrrolidine-3-carboxamide;

N-{4-[4-amino-2-(2-methoxyethyl)-1*H*-imidazo[4,5-*c*]quinolin-1-yl]butyl}-1-[(4-*tert*-butylphenyl)sulfonyl]-L-prolinamide;

N-[8-(4-amino-2-butyl-1*H*-imidazo[4,5-*c*]quinolin-1-yl)octyl]benzamide;

15 *N*-{8-[4-amino-2-(2-methoxyethyl)-1*H*-imidazo[4,5-*c*]quinolin-1-yl]octyl}benzamide;

N-[3-(4-amino-2-butyl-1*H*-imidazo[4,5-*c*]quinolin-1-yl)propyl]benzamide;

N-{3-[4-amino-2-(2-methoxyethyl)-1*H*-imidazo[4,5-*c*]quinolin-1-yl]-2,2-dimethylpropyl}benzamide;

N-[8-(4-amino-1*H*-imidazo[4,5-*c*]quinolin-1-yl)octyl]benzamide;

20 *N*-{3-[4-amino-2-(3-phenoxypropyl)-1*H*-imidazo[4,5-*c*]quinolin-1-yl]propyl}-4-bromobenzamide;

N-{3-[4-amino-2-(3-phenoxypropyl)-1*H*-imidazo[4,5-*c*]quinolin-1-yl]propyl}benzamide;

N-{3-[4-amino-2-(2-methoxyethyl)-6,7,8,9-tetrahydro-1*H*-imidazo[4,5-*c*]quinolin-1-yl]propyl}benzamide; and

25 *N*-{3-[4-amino-2-(2-methoxyethyl)-1*H*-imidazo[4,5-*c*]quinolin-1-yl]propyl}benzamide; or a pharmaceutically acceptable salt thereof in combination with a pharmaceutically acceptable carrier.

14. A compound selected from the group consisting of:

30 *N*-{4-[4-amino-2-(2-methoxyethyl)-1*H*-imidazo[4,5-*c*]quinolin-1-yl]butyl}isoquinoline-3-carboxamide;

N-{4-[4-amino-2-(2-methoxyethyl)-1*H*-imidazo[4,5-*c*]quinolin-1-yl]butyl}quinoline-3-carboxamide;

N-{4-[4-amino-2-(2-methoxyethyl)-1*H*-imidazo[4,5-*c*]quinolin-1-yl]butyl}quinoxaline-2-carboxamide;

5 *N*-[3-(4-amino-2-butyl-1*H*-imidazo[4,5-*c*]quinolin-1-yl)propyl]isoquinoline-3-carboxamide;

N-{3-[4-amino-2-(2-methoxyethyl)-1*H*-imidazo[4,5-*c*]quinolin-1-yl]propyl}isoquinoline-3-carboxamide;

N-[4-(4-amino-2-ethyl-1*H*-imidazo[4,5-*c*]quinolin-1-yl)butyl]cyclopentanecarboxamide;

10 *N*-[4-(4-amino-2-methyl-1*H*-imidazo[4,5-*c*]quinolin-1-yl)butyl]cyclohexanecarboxamide;

N-[4-(4-amino-2-ethyl-1*H*-imidazo[4,5-*c*]quinolin-1-yl)butyl]-2-methylpropanamide;

N-[4-(4-amino-2-ethyl-1*H*-imidazo[4,5-*c*]quinolin-1-yl)butyl]butanamide;

N-[4-(4-amino-2-methyl-1*H*-imidazo[4,5-*c*]quinolin-1-yl)butyl]cyclopentanecarboxamide;

N-[4-(4-amino-2-methyl-1*H*-imidazo[4,5-*c*]quinolin-1-yl)butyl]-2-methylpropanamide;

15 *N*-[4-(4-amino-2-methyl-1*H*-imidazo[4,5-*c*]quinolin-1-yl)butyl]butanamide;

N-[4-(4-amino-2-ethyl-1*H*-imidazo[4,5-*c*]quinolin-1-yl)butyl]cyclohexanecarboxamide;

N-[3-(4-amino-2-methyl-1*H*-imidazo[4,5-*c*]quinolin-1-yl)propyl]cyclohexanecarboxamide;

N-[3-(4-amino-2-methyl-1*H*-imidazo[4,5-*c*]quinolin-1-yl)propyl]cyclopentanecarboxamide;

20 *N*-[3-(4-amino-2-methyl-1*H*-imidazo[4,5-*c*]quinolin-1-yl)propyl]-2-methylpropanamide;

N-[3-(4-amino-2-methyl-1*H*-imidazo[4,5-*c*]quinolin-1-yl)propyl]butanamide; and

N-{2-[4-amino-2-(ethoxymethyl)-1*H*-imidazo[4,5-*c*]quinolin-1-yl]-1,1-dimethylethyl}-2-ethoxyacetamide;

25 or a pharmaceutically acceptable salt thereof.

15. A pharmaceutical composition comprising a therapeutically effective amount of a compound of claim 5 in combination with a pharmaceutically acceptable carrier.

30 16. A pharmaceutical composition comprising a therapeutically effective amount of a compound of claim 9 in combination with a pharmaceutically acceptable carrier.

17 A pharmaceutical composition comprising a therapeutically effective amount of a compound of claim 14 in combination with a pharmaceutically acceptable carrier.

18. A method of inducing cytokine biosynthesis in an animal comprising administering an effective amount of a composition of claim 1 to the animal.

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19. A method of inducing cytokine biosynthesis in an animal comprising administering an effective amount of a composition of claim 4 to the animal.

20. A method of inducing cytokine biosynthesis in an animal comprising administering an effective amount of a composition of claim 13 to the animal.

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21. A method of inducing cytokine biosynthesis in an animal comprising administering an effective amount of a composition of claim 15 to the animal.

22. A method of inducing cytokine biosynthesis in an animal comprising administering an effective amount of a composition of claim 16 to the animal.

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23. A method of inducing cytokine biosynthesis in an animal comprising administering an effective amount of a composition of claim 17 to the animal.

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